Title (en)
LED with load connected in parallel

Title (de)
Diode LED mit Last in parallel

Title (fr)
Diode LED avec charge en parallèle

Publication
EP 1605731 A3 20090819 (EN)

Application
EP 05007145 A 20050401

Priority
CN 200420044305 U 20040402

Abstract (en)
[origin: EP1605731A2] The invention discloses an LED lamp and an LED lamp set having a load connected to both ends of an LED, and the lamp acts like a non-polarized lamp to an alternate current and maintains to be half-wave lit. No consideration of anode and cathode is needed for connecting the LEDs of the lamp set in series on an electric wire. Even when an LED is damaged to produce an open circuit, electric current still can pass through the load connected to the damaged LED to light up the rest LEDs. Since the LED will not be damaged easily while blinking, the LED has a long life. It is not necessary to consider the polarity of the LED for its installation, and thus making the installation and replacement more convenient. The invention comes with a voltage divider or choke that can resist voltage or current surges.

IPC 8 full level
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CPC (source: EP US)
H05B 45/54 (2020.01 - EP US); **H05B 47/23** (2020.01 - EP US)

Citation (search report)
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- [Y] US 6283797 B1 20010904 - WU JENG-SHYONG [TW]
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Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

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AL BA HR LV MK YU

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